

Listing and Amendments to the Claims

This listing of claims will replace the claims that were published in the PCT Application and the International Preliminary Examination Report:

Claims 1-20 (from the International Preliminary Examination Report) are cancelled.

21. (new) A power supply having a first and a second switch-mode power supply unit, which has a normal operation, in which both switch-mode power supply units are in operation, and a standby operation, in which the first switch-mode power supply unit is switched off by a control voltage, the control voltage being used in standby operation for reducing the switching frequency of the second switch-mode power supply unit.
22. (new) The power supply as claimed in claim 21, wherein the control voltage is transmitted via an optocoupler together with the regulating voltage for the first switch-mode power supply unit from the secondary side to the primary side.
23. (new) The power supply as claimed in claim 21 wherein the first switch-mode power supply unit includes a driver stage, in particular with an integrated circuit, which has a first output having a higher voltage during the normal operation than during the standby operation, and in that said output is connected to an oscillator input of the second switch-mode power supply unit for reducing the switching frequency of the second switch-mode power supply unit in standby operation.

24. (new) The power supply as claimed in claim 23, wherein the first output of the driver stage is the output of an error amplifier of an integrated circuit, and in that said output is connected via a resistor to a capacitor of the oscillator of the second switch-mode power supply unit for reducing the oscillation frequency of the oscillator of the second driver stage.

25. (new) The power supply as claimed in claim 21, wherein a second output of the driver stage of the first switch-mode power supply unit, which drives the switching element of the first switch-mode power supply unit is coupled by a series circuit, having a current limiting means and a rectifier means, to an oscillator input of the driver stage of the second switch-mode power supply unit for synchronizing the second switch-mode power supply unit.

26. (new) The power supply as claimed in claim 25, wherein the output of the integrated circuit which drives the switching element of the first switch-mode power supply unit is connected by the series circuit to the capacitor of the oscillator of the second switch-mode power supply unit.

27. (new) The power supply as claimed in claim 25, wherein an output of the second driver stage, which drives the switching element of the second switch-mode power supply unit, is connected by a switching stage to the series circuit for increasing the pulse width ratio.

28. (new) The power supply as claimed in claim 27, wherein the switching stage has a switch, in particular a transistor, which turns off if the voltage of the output of the second driver stage turns off the switching transistor being connected downstream, and which is at low impedance on the output side if the output voltage of the second driver stage is high.
29. (new) The power supply as claimed in claim 27, wherein the switching stage blocks signals of the series circuit if the output voltage of the second driver stage is high.
30. (new) The power supply as claimed in claim 21, wherein the first and second switch-mode power supply units in each case have a transformer having a primary winding and at least one secondary winding, a switching element coupled to one of the primary windings, and a driver stage in respect thereof, and in that both switch-mode power supply units preferably operate according to the flyback converter principle.
31. (new) The power supply as claimed in claim 21, wherein the control voltage is coupled to a control input of the first switch-mode power supply unit and an oscillator input of the second switch-mode power supply unit.